

**SINUSOIDAL FREQUENCY GENERATOR AND PERIODIC SIGNAL  
CONVERTER USING THEREOF**

**ABSTRACT OF THE DISCLOSURE**

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A sinusoidal frequency generator comprising an oscillation circuit controlled by a control voltage, characterized in that the oscillating circuit is a gyrator made up of two transconductance amplifiers whose bias points are fixed by the control voltage in order to regulate oscillation frequency. The gyrator is easy to integrated in a phase control loop in order to realize a square-to-sinusoidal frequency converter.

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